Contents

Bartlett, S.G., Harris, E.H., Grabowy, C.T., Gillham, N.W., Boynton, J.E.: Ribosomal Subunits Affected by Antibiotic Resistance Mutations at Seven Chlorplast Loci in *Chlamydomonas reinhardtii* 199

Bennett, L., s. Lee, C.-Y., et al. 303

Bielka, H., s. Lutsch, G., et al. 281

Billault, A., s. Rapoport, G., et al. 239

Blanc, H., Gerbaud, C., Slonimski, P.P., Guérineau, M.: Stable Yeast Transformation With Chimeric Plasmids Using a 2 μm-Circula DNA-Less Strain as a Recipient . 335

Bleichrodt, J.F., Roos-Verheij, W.S.D.: Influence of SOS Repair on the Specificity of Radiation Mutagenesis in Bacteriphage $\varphi X174$ 155

Bohman, K., Isaksson, L.A.: Temperature-Sensitive Mutants in Cysteinyl-tRNA Ligase of *E. coli* K-12 53

Boncinelli, E., Furia, M.: Patterns of Reversion to *bobbed* Condition of Magnified *bobbed* Loci in *D. melanogaster* 81

Bourguignon-Van Horen, M.F., Henry-Van der Loo, N.: Transcription and Membrane Attachment of Bacteriophage λ DNA in the Absence of N Function in the *E. coli suA1* Mutant 369

Boy de la Tour, E., s. Chandler, M., et al. 221

Boynton, J.E., s. Bartlett, S.G., et al. 199

Brendel, M., s. Fleer, R. 41

Bronson, D., s. Lee, C.-Y., et al. 303

Burkardt, H.J., s. Pühler, A., et al. 17

Butcher, D.N., s. Scott, I.M., et al. 57

Caro, L., s. Chandler, M., et al. 221

Chakrabarty, A.M., Gunsalus, I.C.: Chromosomal Mobilization from a *recA* Mutant of *Pseudomonas putida*. (Short Communication) 151

Chandler, M., Boy de la Tour, E., Willems, D., Caro, L.: Some Properties of the Chloramphenicol Resistance Transposon Tn9 221

Charles, D., s. Lee, C.-Y., et al. 303

Chiang, K.-S., s. Swinton, D.C. 399

Chung, Y.S., s. Dubeau, H. 393

Ciriacy, M.: Isolation and Characterization of Further *Cis*- and *Trans*-Acting Regulatory Elements Involved in the Synthesis of Glucose-Repressible Alcohol Dehydrogenase (ADHII) in *Saccharomyces cerevisiae* 427

Cohen, S., s. Shafferman, A., et al. 139

Connaughton, M.J., s. Kogoma, T., et al. 1

Dallmann, G., Orosz, L., Sain, B.: Restriction Mapping of DNA of Temperate *Rhizobium meliloti* Phage *16-3*: Comparison of Genetic and Physical Maps Indicate a Long, Genetically Silent Chromosomal Arm 439

Danchin, A., s. Daniel, J. 343

Daniel, J., Danchin, A.: Involvement of Cyclic AMP and Its Receptor Protein in the Sensitivity of *Escherichia coli* K 12 toward Serine. Excretion of 2-Ketobutyrate, a Precursor of Isoleucine 343

Darby, V., Holland, I.B.: A Kinetic Analysis of Cell Division, and Induction and Stability of *recA* Protein in U.V. Irradiated *lon*$^+$ and *lon*$^-$ Strains of *Escherichia coli* K 12 . . 121

Dedonder, R., s. Rapoport, G., et al. 239

Dempsey, W.B., McIntire, S.A.: Lambda Transducing Phages Derived from a FinO$^-$ R100::λ Cointegrate Plasmid: Proteins Encoded by the R100 Replication/Incompatibility Region and the Antibiotic Resistance Determinant . 319

Dubeau, H., Chung, Y.S.: Ozone Response in Wild Type and Radiation-Sensitive Mutants of *Saccharomyces cerevisiae* 393

Eagles, J., s. Scott, I.M., et al. 57

Enzmann, G., s. Lutsch, G., et al. 281

Evgen'ev, M., Levin, A., Lozovskaya, E.: The Analysis of a Temperature-Sensitive (ts) Mutation Influencing the Expression of Heat Shock-Inducible Genes in *Drosophila melanogaster* 275

Faelen, M., Toussaint, A., Resibois, A.: Mini-Muduction: A New Mode of Gene Transfer Mediated by Mini-Mu . 191

Falkinham, J.O., III: Identification of a Mutation Affecting an Alanine-α-Ketoisovalerate Transaminase Activity in *Escherichia coli* K-12. (Short Communication) 147

Fargette, F., s. Rapoport, G., et al. 239

Fehr, S., Lin, A., Wool, I.G., Richter, D.: The Stimulation of *Escherichia coli* Stringent Factor-Dependent Synthesis of Guanosine 3′, 5′ Polyphosphate [(p)ppGpp] by Rat Liver Ribosomal Proteins 375

Fenwick, G.R., s. Scott, I.M., et al. 57

Fikus, M., s. Rempola, B., et al. 433

Filipov, V.D., s. Hofemeister, J., et al. 265

Firmin, J.L., s. Scott, I.M., et al. 57

Flashner, Y., s. Shafferman, A., et al. 139

Fleer, R., Brendel, M.: Formation and Fate of Cross-links Induced by Polyfunctional Anticancer Drugs in Yeast . 41

Foster, T.J., s. Kehoe, M.A. 113

Furia, M., s. Boncinelli, E., et al. 81

Gerbaud, C., s. Blanc, H., et al. 335

Ghosal, D., Saedler, H.: IS2-61 and IS2-611 Arise by Illegitimate Recombination from IS2-6 233

Gillham, N.W., s. Bartlett, S.G., et al. 199

Giudice, L. Del, s. Wolf, K., et al. 301

Grabowy, C.T., s. Bartlett, S.G., et al. 199

Gragerov, A.I., s. Larionov, O.A., et al. 105

Griffin, M., s. Lee, C.-Y., et al. 303

Guérineau, M., s. Blanc, H., et al. 335

Guiney, D.G., Helinski, D.R.: The DNA-Protein Relaxation Complex of the Plasmid RK2: Location of the Site-Specific Nick in the Region of the Proposed Origin of Transfer 183

Gunsalus, I.C., s. Chakrabarty, A.M. 151

Harris, E.H., s. Bartlett, S.G., et al. 199

Helinski, D.R., s. Guiney, D.G. 183

Henry-Van der Loo, N., s. Bourguignon-Van Horen, M.F. . 369

Hofemeister, J., Köhler, H., Filipov, V.D.: DNA Repair in *Proteus mirabilis*. VI. Plasmid (R46-) Mediated Recovery and UV Mutagenesis 265

Holland, I.B., s. Darby, V. 121

Iida, S., s. Meyer, J. 209

Imamoto, F., s. Kano, Y., et al. 379

Isaksson, L.A., s. Bohman, K. 53

Isono, K., s. Schnier, J. 313

Jackson, J.F., Linskens, H.F.: Pollen DNA Repair After Treatment with the Mutagens 4-Nitroquinoline-1-oxide, Ultraviolet and Near-Ultraviolet Irradiation, and Boron Dependence of Repair 11

Johnson, J., s. Mahler, H.R. 25

Johnston, G.C., s. Singer, R.A. 37

Kalyaeva, E.S., s. Larionov, O.A., et al. 105

Kano, Y., Nakamura, H., Somerville, R.L., Imamoto, F.: Decay Rates of *Escherichia coli trp* Messenger RNA Molecules Lacking the Normal 5′-Terminal Sequences 379

Kaudewitz, F., s. Wolf, K., et al. 301

Kehoe, M.A., Foster, T.J.: Transposon 10 Promoted Deletions and Inversions in the Transfer Genes of R100-1 . . 113

Klier, A., s. Rapoport, G., et al. 239

Klipp, W., s. Pühler, A., et al. 17

Kłopotowski, T., s. Krajewska-Grynkiewicz, K. 87

Köhler, H., s. Hofemeister, J., et al. 265

Kogoma, T., Torrey, T.A., Connaughton, M.J.: Induction of UV-Resistant DNA Replication in *Escherichia coli*: Induced Stable DNA Replication as an SOS Function . 1

Krajewska-Grynkiewicz, K., Kłopotowski, T.: Altered Linkage Values in Phage P22-Mediated Transduction Caused

by Distant Deletions or Insertions in Donor Chromosomes . . . 87
Kumar, S., Prakash, N., Sharma, V.K.: Control of Minicell Producing Cell Division by cAMP-Receptor Protein Complex in *Escherichia coli*. (Short Communication) . . . 449
Lancashire, W.E., Mattoon, J.R.: Genetics of Oxidative Phosphorylation: Mitochondrial Loci Determining Ossamycin-, Venturicidin- and Oligomycin-Resistance in Yeast 255
Larionov, O.A., Gragerov, A.I., Kalyaeva, E.S., Nikiforov, V.G.: A Cold-Sensitive β Subunit Mutant RNA Polymerase from *Escherichia coli* with Defects in Promoter Opering in vitro . . . 105
Lee, C.-Y., Charles, D., Bronson, D., Griffin, M., Bennett, L.: Analyses of Mouse and *Drosophila* Proteins by Two-Dimensional Gel Electrophoresis . . . 303
Levin, A., s. Evgen'ev, M., et al. . . . 275
Lin, A., s. Fehr, S., et al. . . . 375
Linskens, H.F., s. Jackson, J.F., et al. . . . 11
Lozovskaya, E., s. Evgen'ev, M., et al. . . . 275
Lutsch, G., Noll, F., Theise, H., Enzmann, G., Bielka, H.: Localization of Proteins S 1, S 2, S 16 and S 23 on the Surface of Small Subunits of Rat Liver Ribosomes by Immune Electron Microscopy . . . 281
Mahler, H.R., Johnson, J.: Specific Effects of Nalidixic Acid on Mitochondrial Gene Expression in *Saccharomyces cerevisiae* . . . 25
March, J.F., s. Scott, I.M., et al. . . . 57
Marcou, D., Masson, A., Simonet, J.-M., Piquepaille, G.: Evidence for Non-Random Spatial Distribution of Meiotic Exchanges in *Podospora anserina*: Comparison between Linkage Groups 1 and 6 . . . 67
Marzluf, G.A., s. Wang, L.-W.C. . . . 385
Masson, A., s. Marcou, D., et al. . . . 67
Mattoon, J.R., s. Lancashire, W.E. . . . 255
McIntire, S.A., s. Dempsey, W.B. . . . 319
Meyer, J., Iida, S.: Amplification of Chloramphenicol Resistance Transposon Carried by Phage P1Cm in *Escherichia coli* . . . 209
Michaelis, G., s. Pratje, E., et al. . . . 411
Nakamura, H., s. Kano, Y., et al. . . . 379
Neumann, M., s. Rüger, W., et al. . . . 417
Newlon, M.C.: NADP-Specific Glutamate Dehydrogenase Is not Involved in Repression of Yeast Sporulation by Ammonia. (Short Communication) . . . 297
Nicolas, A.: Variation of Gene Conversion and Intragenic Recombination Frequencies in the Genome of *Ascobolus immersus* . . . 129
Niggemann, E., s. Rüger, W., et al. . . . 417
Nikiforov, V.G., s. Larionov, O.A., et al. . . . 105
Noll, F., s. Lutsch, G., et al. . . . 281
Ohmori, H., Tomizawa, J.: Nucleotide Sequence of the Region Required for Maintenance of Colicin E 1 Plasmid . . . 161
Orosz, L., s. Dallmann, G., et al. . . . 439
Piquepaille, G., s. Marcou, D., et al. . . . 67
Prakash, L., Prakash, S.: Three Additional Genes Involved in Pyrimidine Dimer Removal in *Saccharomyces cerevisiae*. *RAD 7*, *RAD 14* and *MMS 19* . . . 351
Prakash, N., s. Kumar, S., et al. . . . 449
Prakash, S., s. Prakash, L. . . . 351
Pratje, E., Schulz, R., Schnierer, S., Michaelis, G.: Sporulation of Mitochondrial Respiratory Deficient *mit*$^-$ Mutants of *Saccharomyces cerevisiae* . . . 411
Prell, H.H.: Ant-Mediated Inactivation of *Salmonella* Phage L-Specified Repression at o_R of Prophage L . . . 33
Pühler, A., Burkardt, H.J., Klipp, W.: Cloning of the Entire Region for Nitrogen Fixation from *Klebsiella pneumoniae* on a Multicopy Plasmid Vehicle in *Escherichia coli* . . . 17
Raina, J.L., Ravin, A.W.: Superhelical DNA in *Streptococcus sanguis*: Role in Recombination in vivo . . . 171
Rapoport, G., Klier, A., Billault, A., Fargette, F., Dedonder, R.: Construction of a Colony Bank of *E. coli* Containing Hybrid Plasmids Representative of the *Bacillus subtilis* 168 Genome Expression of Functions Harbored by the Recombinant Plasmids in *B. subtilis* . . . 239
Ravin, A.W., s. Raina, J.L. . . . 171
Rempola, B., Fikus, M.: Cloning of Bacteriophage PM 2 DNA in *Escherichia coli* K 12 . . . 433
Resibois, A., s. Faelen, M., et al. . . . 191
Richter, D., s. Fehr, S., et al. . . . 375
Roeder, W., Somerville, R.L.: Cloning the *trpR* Gene . . . 361
Rohr, U., s. Rüger, W., et al. . . . 417
Roos-Verheij, W.S.D., s. Bleichrodt, J.F. . . . 155
Rüger, W., Neumann, M., Rohr, U., Niggemann, E.: The Complete Maps of *BGl*II, *Sal*I and *Xho*I Restriction Sites on T 4 dC-DNA . . . 417
Saedler, H., s. Ghosal, D. . . . 233
Sain, B., s. Dallmann, G., et al. . . . 439
Schmieger, H., s. Teifel, J. . . . 293
Schneeman, R., Surzycki, S.: *E. coli* Ribosomal Proteins are Cross Reactive with Antibody Prepared Against *Chlamydomonas reinhardi* Chloroplast Ribosomal Subunit . . . 95
Schnier, J., Isono, K.: The Gene for Ribosomal Protein L 25 (*rplY*) Maps at 47.3 min Near *nalA* in *Escherichia coli* K-12 . . . 313
Schnierer, S., s. Pratje, E., et al. . . . 411
Schulz, R., s. Pratje, E., et al. . . . 411
Scott, I.M., Firmin, J.L., Butcher, D.N., Searle, L.M., Sogeke, A.K., Eagles, J., March, J.F., Self, R., Fenwick, G.R.: Analysis of a Range of Crown Gall and Normal Plant Tissues for Ti Plasmid-Determined Compounds . . . 57
Searle, L.M., s. Scott, I.M., et al. . . . 57
Self, R., s. Scott, I.M., et al. . . . 57
Shafferman, A., Flashner, Y., Cohen, S.: ColE1 DNA Sequences Interacting in *cis*, Essential for Mitomycin-C Induced Lethality . . . 139
Sharma, V.K., s. Kumar, S., et al. . . . 449
Simonet, J.-M., s. Marcou, D., et al. . . . 67
Singer, R.A., Johnston, G.C.: Naldixic Acid Causes a Transient G 1 Arrest in the Yeast *Saccharomyces cerevisiae* . . . 37
Slonimski, P.P., s. Blanc, H., et al. . . . 335
Sogeke, A.K., s. Scott, I.M., et al. . . . 57
Somerville, R.L., s. Kano, Y., et al. . . . 379
Somerville, R.L., s. Roeder, W. . . . 361
Surzycki, S., s. Schneeman, R. . . . 95
Swinton, D.C., Chiang, K.-S.: Characterization of Thymidine Kinase and Phosphorylation of Deoxyribonucleosides in *Chlamydomonas reinhardti* . . . 399
Teifel, J., Schmieger, H.: The Origin of the DNA in Transducing Particles of Bacteriophage Mu. Density Gradient Analyses of Intact Phages. (Short Communication) . . . 293
Theise, H., s. Lutsch, G., et al. . . . 281
Tomizawa, J., s. Ohmori, H. . . . 161
Torrey, T.A., s. Kogoma, T., et al. . . . 1
Toussaint, A., s. Faelen, M., et al. . . . 191
Wang, L.-W.C., Marzluf, G.A.: Nitrogen Regulation of Uricase Synthesis in *Neurospora crassa* . . . 385
Willems, D., s. Chandler, M., et al. . . . 221
Wolf, K., Giudice, L. Del, Kaudewitz, F.: Promotion of Uniparental Inheritance of Mitochondrial Drug Resistance by Delayed Division of Yeast Zygotes. (Short Communication) . . . 301
Wool, I.G., s. Fehr, S., et al. . . . 375
Yannopoulos, G.: Ability of the Male Recombination Factor *31.1 MRF* to Be Transposed to Another Chromosome in *Drosophila melanogaster* . . . 247

Indexed in Current Contents